

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



QUALITY CERTIFICATE

Vessel	"Bouchard-95"	Port	Boston, MA	Report	121604
Customer	Sprague Energy	Date	December 15, 2004	Reference	
Operation	Analysis	Terminal	Sprague Quincy	Sample #	685735

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

0.5% No 6 Fuel Oil

Shore Tank#11 After Discharge
BSi Inspectorate
BSi Inspectorate

Tests being Performed	Test method	Sample Results		
Gravity API @ 60F / Denisty	D - 4052	15.5	/	0.9623
Flash Point, PMCC, F	D - 93		155	
Viscosity cSt @ 122F	D - 445		292.9	
Viscosity SSF @ 122F	D - 2161		138.3	
Pour Point C / F	D - 97		0 / 32	
Sulfur , Wt%	D - 4294		0.488	
Water and Sediment, Vol %	D - 1796		0.20	
Sediment by Extraction, wt%	D - 473		0.04	
Water by Distillation, Vol%	D - 95		0.2	
Gross Heat of Combustion, BTU / lb	D - 240		18,723	
Gross Heat of Combustion, BTU / gal	D - 240		15,091	
Ash, wt %	D - 482		0.076	
Vanadium, ppm	D - 5863 B		12	
Sodium, ppm	D - 5863 B		5	
Nitrogen, wt%	D - 5762		0.301	
Ashphaltenes, wt%	IP - 143		2.71	
Carbon Res., Ramsbottom on 10% bottom	D - 189		10.49	
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** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by Inspectorate